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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 14-11-22

Lab ID	:	**CP-2023-01-30-24**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.75	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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R KARTHIK RECHAN

Authorized Signatory

Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-01-30-24** **Date: 10-12-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	12-11-22
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-01-30-24** **Date: 13-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-01-30-24 **Date: 13-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.5	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-01-30-24** **Date: 13-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-01-30-24**

Date: 13-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-01-30-24** **Date: 30/11/2022**

Customer : Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.

Address : Project Sub Division, Yelahanka Zone BBMP, Bangalore.

Project Name : Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura

Agency : Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk Zone/WO/175/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-11-22

Customer ID : Compound Wall Above SSM

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Compound Wall Above SSM	M15	23/11/2022	30/11/2022	149.37 X 150.15 X 151.61	22429	8.370	291.6	13.0	12.6
2	Compound Wall Above SSM	M15	23/11/2022	30/11/2022	151.33 X 150.06 X 151.82	22707	8.569	290.1	12.8	
3	Compound Wall Above SSM	M15	23/11/2022	30/11/2022	151.40 X 150.77 X 150.74	22826	9.079	277.4	12.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/12/2022

Lab ID	:	**CP-2023-01-30-24**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-11-22
Customer ID	:	Compound Wall Above SSM
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Compound Wall Above SSM	M15	23/11/2022	21/12/2022	151.28 X 150.90 X 149.53	22829	8.382	410.9	18.0	17.7
2	Compound Wall Above SSM	M15	23/11/2022	21/12/2022	150.21 X 151.86 X 151.46	22811	9.053	405.8	17.8	
3	Compound Wall Above SSM	M15	23/11/2022	21/12/2022	151.74 X 151.20 X 149.61	22944	8.215	394.8	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-01-30-24** **Date: 02/12/2022**

Customer : Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.

Address : Project Sub Division, Yelahanka Zone BBMP, Bangalore.

Project Name : Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura

Agency : Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk Zone/WO/175/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-11-22

Customer ID : Concrete Flooring - CC Camera Room

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete Flooring - CC Camera Room	M15	25/11/2022	02/12/2022	149.21 X 149.46 X 150.51	22301	8.896	282.0	12.6	12.8
2	Concrete Flooring - CC Camera Room	M15	25/11/2022	02/12/2022	151.36 X 149.78 X 149.54	22672	8.163	292.0	12.9	
3	Concrete Flooring - CC Camera Room	M15	25/11/2022	02/12/2022	150.46 X 151.84 X 151.92	22845	8.246	294.6	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/12/2022

Lab ID	:	**CP-2023-01-30-24**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-22
Customer ID	:	Concrete Flooring - CC Camera Room
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete Flooring - CC Camera Room	M15	25/11/2022	23/12/2022	150.98 X 150.05 X 151.93	22655	9.082	386.1	17.0	17.4
2	Concrete Flooring - CC Camera Room	M15	25/11/2022	23/12/2022	150.17 X 151.21 X 150.07	22707	8.926	395.5	17.4	
3	Concrete Flooring - CC Camera Room	M15	25/11/2022	23/12/2022	149.13 X 151.10 X 150.69	22533	9.083	401.9	17.8	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2023-01-30-24** **Date: 24-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	75	75	7.5	92.5	90-100
3	1.18 mm	198	273	27.3	72.7	70-100
4	600 micron	152	425	42.5	57.5	40-100
5	300 micron	112.5	537.5	53.8	46.3	5-70
6	150 micron	413.5	951	95.1	4.9	0-15
7	Pan	49	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-01-30-24** **Date: 24-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2023-01-30-24** **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	25	25	2.5	97.5	95-100
3	2.36 mm	10	35	3.5	96.5	95-100
4	1.18 mm	58	93	9.3	90.7	90-100
5	600 micron	101	194	19.4	80.6	80-100
6	300 micron	215	409	40.9	59.1	20-65
7	150 micron	506	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-01-30-24** **Date: 25-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2023-01-30-24** **Date: 28-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Construction of Ward office additional work, Furniture etc in Ward No. 05, Byatarayanapura
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/175/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-11-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	406	201	202	16484	33.633	2040.3	2046.7	Not less than 1800Kg/m^3
2	406	198	201	16158	32.504	2011.6		
3	406	201	199	16240	33.910	2088.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2023-01-30-24** **Date: 28-11-22**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	203	199	
2	403	201	200	
3	403	200	200	
4	403	200	202	
5	400	200	200	
6	402	199	201	
7	404	200	202	
8	402	202	201	
9	401	199	201	
10	403	200	201	
11	403	202	201	
12	404	200	203	
13	402	203	203	
14	401	202	201	
15	401	201	199	
16	401	200	199	
17	402	199	199	
18	403	200	200	
19	402	203	201	
20	403	202	202	
Average of 20	**402**	**201**	**201**	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Lab ID : CP-2023-01-30-24

Date: 28-11-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	203	81060	386.3	4.8	5.1
2	403	201	81137	421.8	5.2	
3	403	200	80692	460.2	5.7	
4	403	200	80303	414.3	5.2	
5	400	200	79884	417.5	5.2	
6	402	199	80094	420.7	5.3	
7	404	200	80918	386.7	4.8	
8	402	202	81348	402.3	4.9	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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